# PROJECT DESCRIPTION

### I. GENERAL

THIS PROJECT IS LOCATED AT THE INTERSECTION OF MD 704 & SHERIFF ROAD IN PRINCE GEORGES COUNTY MARYLAND AND INVOLVES ROADWAY IMPROVEMENTS AND THE RECONSTRUCTION OF LOOP DETECTORS AND REALIGNMENT OF EXISTING SIGNAL HEADS FOR THE EXISTING SIGNAL THAT ARE EFFECTED BY THESE IMPROVEMENTS. MD 704 IS ASSUMED TO RUN IN A NORTH SOUTH DIRECTION.

### II. INTERSECTION OPERATION

THE PROPOSED TRAFFIC SIGNAL WILL OPERATE IN A NEMA SIX (6) PHASE, FULLY TRAFFIC ACTUATED MODE. THE MD 704 APPROACHES WILL OPERATE CONCURENTLY WITH THE LEFT TURNS OPERATING IN AN EXCLUSIVE/PERMISSIVE PHASE. THE SHERIFF ROAD APROACHES WILL OPERATE IN A SPLIT PHASE

THE EXISTING TRAFFIC CONTROLLER, SIGNAL POLES WILL REMAIN. TWO EXISTING SIGNAL HEADS WILL BE RELOCATED ALONG THEIR SPAN WIRES TO ALIGN WITH THE NEW TRAVEL LANES. A NEW R3-6 SIGN WILL BE INSTALLED. NEW LOOP WIRES AND PROBES WILL BE INSTALLED DUE TO GEOMETRIC IMPROVEMENTS.

#### III. SPECIAL NOTES

- I. IT IS THE RESPONSIBLITY OF THE CONTRACTOR TO CONFIRM GEOMETRICS PRIOR TO PLACING SIGNAL EQUIPMENT.
- 2. THE SIGNAL SHOP WILL BE NOTIFIED TO PERFORM INTERNAL WIRING OF THE CABINET AT MD 704 @ SHERIFF ROAD ALL CABLE SHALL BE IDENTIFIED AND BROUGHT INTO THE CONTROLLER BY THE CONTRACTOR. THE CONTRACTOR SHALL NOTIFY MR. EDWARD RODENHIZER, SHA SIGNAL SHOP AT (410) 787-7650 SEVENTY-TWO (72) HOURS IN ADVANCE OF THIS WORK.

## CONSTRUCTION DETAILS

- A INSTALL 6'X30' LOOP DETECTOR IN 1/4 INCH FLEXIBLE TUBING (3-6-3 TURNS).
- (B) INSTALL MICROLOOP PROBE SET 1000' LEAD-IN.
- (C) ABANDON EXISTING LOOP DETECTORS
- D INSTALL I INCH LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT AND FITTING (DETECTOR WIRE SLEEVE).
- (E) INSTALL 24" WHITE PREFORMED PAVEMENT MARKING TAPE FOR STOP LINE.
- (F) USE EXISTING CONDUIT.
- (G) USE EXISTING HANDHOLE AND ADJUST TO GRADE AS NECESSARY.
- (H) SIGNAL HEAD TO BE RELOCATED ON EXISTING SPAN WIRE AS SHOWN.
- (I) INSTALL NEW PAVEMENT MARKING ARROWS.
- (J) INSTALL NEW PAVEMENT MARKING LETTERS.
- (K) INSTALL 12" WHITE PREFORMED PAVEMENT MARKING TAPE FOR CROSS WALK.
- (L) REMOVE EXISTING PAVEMENT MARKING.
- M INSTALL HANDHOLE.
- (N) INSTALL 2 INCH POLYVINAL CHLORIDE ELECTRICAL CONDUIT SCHEDULE 80 TRENCHED.
- (install 2 inch polyvinal chloride electrical conduit schedule 80 Bored.
- (P) PAVEMENT MARKING BY OTHERS
- (Q) EXISTING PAVEMENT MARKING TO REMAIN
- (R) 6' x 30' LOOP DETECTOR BY OTHERS

# EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY SHA AND INSTALLED BY THE CONTRACTOR:

ITEM NO.	QUANTITY	DESCRIPTION
900001	7.50 S.F.	FURNISH SHEET ALUMINUM SIGNS TO CONSIST OF:
	1 EA	R3-6 (30"x36") LEFT TURN THRU ONLY LANE SIGN SPAN WIRE MOUNT

DESCRIPTION

B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR:

ITEM NO. QUANTITY

585443	625 LF	FURNISH AND INSTALL 12' WHITE PAVM'T MARKING TAPE FOR CROSS WALK
585445	90 LF	FURNISH AND INSTALL 24" WHITE PAVM'T MARKING TAPE FOR STOP LINES
585446	4 EA	FURNISH AND INSTALL PAVEMENT MARKING LETTERS
585448	2 EA	FURNISH AND INSTALL PAVEMENT MARKING ARROWS
862102	750 LF	INSTALL SAWCUT FOR SIGNAL (LOOP DETECTOR)
805160	70 LF	FURNISH AND INSTALL I INCH LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT (DETECTOR WIRE SLEEVE)
860265	2 EA.	RELOCATE EX. SIGNAL HEADS
862101	2150 LF	FURNISH AND INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUB
861104	1600 LF	FURNISH AND INSTALL ELECTRICAL CABLE 2 CONDUCTOR (ALUMINUM SHIELDED)
813015	7.5 SF	INSTALL OVERHEAD SIGNS
800000	5 EA.	FURNISH AND INSTALL PROBES - 1000' LEAD-IN.
811001	3 EA.	FURNISH AND INSTALL HANDHOLE
805125	65 LF	FURNISH AND INSTALL 2* SCHEDULE 80 PVC CONDUIT TRENCHED
805105	165 LF	FURNISH AND INSTALL 2* SCHEDULE 80 PVC CONDUIT BORED
800001	I EA.	ADJUST EXISTING HANDHOLE TO GRADE AS NECESSARY

THE FOLLOWING CONTACT PERSONS FOR DISTRICT 3 ARE AS FOLLOWS:

MR. RICHARD L. DAFF, SR. CHIEF, TRAFFIC OPERATIONS DIVISION (410) 787-7630

MR. MAJIB SHAKIB ASSI. DISTRICT ENGINEER - TRAFFIC (301) 513-7358

MR. AUGUSTINE REBISH ACTING ENGINEER - UTILITY (301) 513-7350

MR. CHARLES WATKINS DISTRICT ENGINEER (301) 513-7311

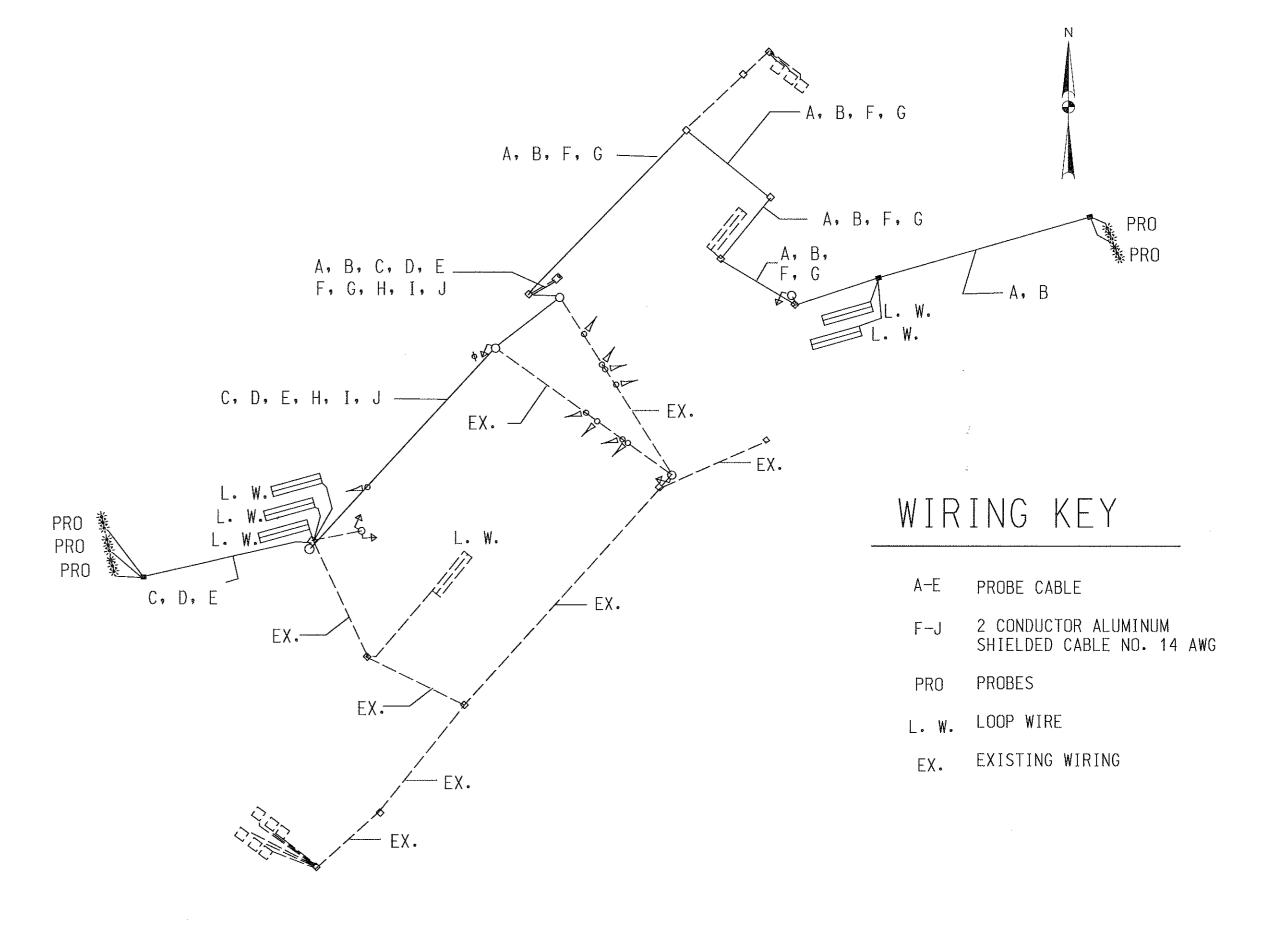
MR. RANDY BROWN ASST. DISTRICT ENGINEER - MAINTENANCE (301) 513-7304



R-W-T-

WIRING DIAGRAM

REGION NO. MD



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PHASE 2 & 6 CHANGE	Υ	Υ	Υ	Υ	R	R	R	R	R	FL/DW	FL/DW	FL/DW	FL/DW	DW	DW	
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FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK	DARK	DARK	

REVISIONS	APPROVALS	REVISIONS	
	CHIEF, DESIGN SECTION  ASST. DISTRICT ENGINEER, TRAFFIC		T
B 09/15/97 REVISED LOOP DETECTORS, SIGNAL HEADS, ADDED SIGNS BW145 M85  R.W.T. 89/26/78 REVISED SIDE STREET DETECTORS	CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION		DRAWN CHK. BY: SCALE:

DIRECTOR, TRAFFIC & SAFETY

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DATE:

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION Office of Traffic & Safety

TRAFFIC ENGINEERING DESIGN DIVISION

MD. 704 & SHERIFF ROAD GENERAL INFORMATION LOG MILE: 16070401.51

BY: S.R.BARANOWSKI TS NO. M·5025 (2) F.A.P. NO. R.R.ZACHERL P-408-001-385 S.H.A. NO. I" = 20' TS-96B PRINCE GEORGES 3/16/88 COUNTY

SHEET NO.